

# INDEX.

- Académie des Sciences, Agriculture, Arts et Belles-Lettres, of Aix, Letter from, 533.
- Acheson, E. G., receives Rumford Medal, 534.
- Activities of Animals, The Influence of Light on the Daily, 533.
- Air, The Absorption of the, for Light of very Short Wave-Lengths, 528.
- Air, Damping of the Quick Oscillations of a Twisted Fibre by the Resistance of the, and by the Torsional Forces, 533.
- Aldrovandi, Anniversary of Death of, 527.
- Aleutian Islands, Volcanoes of, 532.
- Amphioxus, The Sensory Reactions of, 413, 533.
- Animals, The Influence of Light on the Daily Activities of, 533.
- Arc and Spark, Difference in Wave-Lengths of Titanium  $\lambda$  3900 and 3913 in, 351, 528.
- Arc Spectra, Some Effects of Heavy Pressure on, 530.
- Arsenic in Urine, The Determination of, 325.
- Arsenic, The Quantitative Determination of, by the Gutzeit Method, 295.
- Assessment, Annual, Amount of, 542.
- Atomic Weight of Lead, A Revision of, 363, 529.
- Avery, A. H. See Kent, N. A., and Avery, A. H.
- Azores, Volcanoes of the, 529.
- Baker, Sir Benjamin, Death of, 529.
- Bartlett, H. H. See Robinson, B. L., and Bartlett, H. H.
- Baxter, G. P., and Wilson, J. H., A Revision of the Atomic Weight of Lead. Preliminary Paper. — The Analysis of Lead Chloride, 363-373, 529.
- Bell, Louis, Note on Some Meteorological Uses of the Polariscopes, 405-412, 531; The Physiological Basis of Illumination, 75-96.
- Black, O. F. See Sanger, C. R., and Black, O. F.
- Blasius, R., Death of, 528.
- Bohuslav, J., Death of, 527.
- Bowditch, C. P., Report of Treasurer, 535.
- Briggs, L. B. R., elected Resident Fellow, 530; accepts Fellowship, 532.
- Cabot, Samuel, Biographical Notice of, 547.
- California Academy of Sciences, Letter from, 527.
- Campbell, L. L., The Variation of the Thermomagnetic Effect in Soft Iron with Strength of the Magnetic Field and Temperature Gradient, 532, 544.
- Cathode Rays, Longitudinal Magnetic Field and the, 397, 530.
- Chemical Laboratory of Harvard College, Contributions from, 295, 395, 363, 473, 519.
- Chemistry, Thermodynamic, Outlines of a New System of, 257.
- Chloride, Manganous, Transition Temperature of, 341.
- Coil, An Induction, The Influence of Hysteresis upon the Manner of Establishment of a Steady Cur-

- rent in the Primary Circuit of, 530.
- Committees, Standing, appointed, 543; List of, 557.
- Congress of Chemistry and Physics, Letter from, 530.
- Copeland, Manton. *See* Mark, E. L., and Copeland, Manton.
- Council, Report of, 547; Financial Report of, 541.
- Cretan Chronology, 531.
- Cross, C. R., Report of the Rumford Committee, 538.
- Current, Steady, The Influence of Hysteresis upon the Manner of Establishment of a, in the Primary Circuit of an Induction Coil, 530.
- Damping of the Quick Oscillations of a Twisted Fibre by the Resistance of the Air and by the Torsional Forces, 533.
- Davenport, A. L., Letter from, 529.
- Davenport, G. E., Death of, 529.
- Davis, H. N., Notes on Superheated Steam: I. Its Specific Heat; II. Its Total Heat; III. Its Joule-Thomson Effect, 533.
- Davis, W. M., The Centenary Celebration of the Geological Society of London, 529.
- Deam, C. C., New Plants from Guatemala and Mexico, collected by, 48.
- Demagnetizing Factors for Cylindrical Iron Rods, 183.
- Denny, Henry G., Death of, 528.
- Derr, Louis, elected Resident Fellow, 534; accepts Fellowship, 535.
- Dickey, W. P., On Delays before ἀναγνώσεις in Greek Tragedy, 457-471, 533.
- Differential Expressions, Invariants of Linear, 534.
- Distillation, Fractional, Concerning the Use of Electrical Heating in, 519.
- Dwight, Thomas, resigns Fellowship, 535.
- Electrical Heating, concerning the Use of, in Fractional Distillation, 519.
- Electromagnet, Magnetic Behavior of the Finely Divided Core of an, while a Steady Current is being established in the Exciting Coil, 97.
- Farlow, W. G., The Linnaean Celebration at Upsala, Sweden, 529.
- Fellows, Associate, deceased, —  
Hall, Asaph, 533.  
Russell, I. C., 533.  
St. Gaudens, A., 533.  
Seymour, T. D., 530.  
Stedman, E. C., 533.  
Young, C. A., 530.
- Fellows, Associate, elected, —  
Nef, J. U., 534.
- Fellows, Associate, List of, 563.
- Fellows, Resident, deceased, —  
Davenport, G. E., 529.  
Folsom, C. F., 528.  
Gardiner, E. G., 528.  
Hay, G., 535.  
Strobel, E. H., 531.
- Fellows, Resident, elected, —  
Briggs, L. B. R., 530.  
Derr, Louis, 534.  
Johnson, D. W., 544.  
Norris, J. F., 528.  
Walker, W. H., 528.  
Warren, C. H., 544.
- Fellows, Resident, List of, 559.
- Fernald, M. L., Diagnoses of New Spermatophytes from Mexico, 61-68.
- First Chemical Institute of the Royal Friedrich-Wilhelm University of Berlin, Contributions from, 341.
- Fischer, Emil, elected Foreign Honorary Members, 544.
- Fluorite, Studies on, 1; The Kathodo-Luminescence of, 1.
- Folsom, C. F., Death of, 528.
- Foreign Honorary Members, deceased, —  
Baker, Sir Benjamin, 529.  
Kelvin, Lord, 530.  
Vogel, H. C., 528.

- Foreign Honorary Members, elected,—  
Fischer, Emil, 544.
- Foreign Honorary Members, List of,  
565.
- Fourir, Joseph, Death of, 527.
- Fractional Distillation, Concerning the  
Use of Electrical Heating in, 519.
- Gardiner, E. G., Death of, 528.
- Gebauer, Johann, Death of, 527.
- General Fund, 535, 541; Appropriations  
from the Income of, 534,  
542.
- Geological Society of London, Centenary  
Celebration of the, 529;  
Letter from, 532.
- Gesellschaft von Freunden der Naturwissenschaften,  
Anniversary of, 533.
- Goodwin, H. M., and Kalmus, H. T.,  
The Latent Heat of Fusion and  
the Specific Heat in the Solid  
and Liquid State of Salts melting  
Below  $600^{\circ}\text{C}$ ., 544.
- Goodwin, W. W., Cretan Chronology,  
531; Letter from, 532.
- Gray Herbarium of Harvard University,  
Contributions from, 17.
- Greek Tragedy, On Delays before  
*ἀναιρέσις* (Recognitions) in,  
457, 533.
- Greenman, J. M., New species of  
Senecio and Schoenocaulon from  
Mexico, 17–21.
- Guatemala, New Plants from, 48.
- Gutzeit Method, The Quantitative  
Determination of Arsenic by the,  
295.
- Hall, Asaph, Death of, 533.
- Harvard College. *See* Harvard University.
- Harvard University. *See* Chemical  
Laboratory, Gray Herbarium,  
Jefferson Physical Laboratory,  
and Zoological Laboratory.
- Hay, G., Death of, 535.
- Heat, Latent, of Fusion, and the  
Specific Heat in the Solid and  
Liquid State of Salts melting  
Below  $600^{\circ}\text{C}$ ., 544.
- Heat, Specific, in the Solid and Liquid  
State of Salts melting Below  
 $600^{\circ}\text{C}$ ., 544.
- Heating, Electrical, Concerning the  
Use of, in Fractional Distillation,  
519.
- Heats of Liquids, Specific, A New  
Method for the Determination  
of the, 473, 544.
- Hellman, G., Announcement from,  
528.
- Hepites, St. C., Letter from, 527.
- Homer, Pisistratus and his Edition  
of, 489, 544.
- Hough, Theodore, resigns Fellowship,  
535.
- House Committee, Report of, 531,  
540.
- Humphreys, W. J., Some Effects of  
Heavy Pressure on Arc Spectra,  
530.
- Hysteresis, The Influence of, upon  
the Manner of Establishment of  
a Steady Current in the Primary  
Circuit of an Induction Coil,  
530.
- Illumination, The Physiological Basis  
of, 75.
- Intensity of Sound, A Simple Method  
of Measuring the, 375, 531.
- International Congress for the History  
of Religions, Letter from, 530.
- International Congress for the Study  
of the Polar Regions, Report of,  
527.
- International Congress of Americanists,  
Letter from, 529.
- International Congress of Botany,  
Circulars from, 535.
- International Congress of Mathematicians,  
Letter from, 531.
- International Congress of Orientalists,  
Invitation from, 527.
- Invariants of Linear Differential Expressions,  
534.
- Iron Rods, Cylindrical, Demagnetizing  
Factors for, 183.
- Iron, Soft, The Variation of the Thermomagnetic  
Effect in, with  
Strength of the Magnetic Field

- and Temperature Gradient, 532, 544.
- Irwin, Frank, The Invariants of Linear Differential Expressions, 534.
- Jackson, Charles Loring, Biographical Notice of Samuel Cabot, 547.
- Jagger, T. A., Volcanoes of the Aleutian Islands, 532.
- Jefferson Physical Laboratory, Contributions from, 1, 97, 183, 375, 397, 511.
- Johnson, D. W., elected Resident Fellow, 544.
- Kalmus, H. T. *See* Goodwin, H. M., and Kalmus, H. T.
- Kathodo-Luminescence of Fluorite, 1.
- Kelvin, Lord, Death of, 530.
- Kent, N. A., and Avery, A. H., Difference in Wave-Lengths of Titanium  $\lambda\lambda$  3900 and 3913 in Arc and Spark, 351-361, 528.
- Kinnicutt, L. P., Report of C. M. Warren Committee, 539.
- Laboulbeniaceae, Contributions toward a Monograph of, 534.
- Lanman, C. R., appointed Delegate, 530.
- Lead, A Revision of the Atomic Weight of, 363, 529.
- Lead Chloride, The Analysis of, 363, 529.
- Lewis, G. N., Outlines of a New System of Thermodynamic Chemistry, 257-293.
- Librarian, Report of, 537.
- Library, Appropriations for, 542.
- Light, The Influence of, on the Daily Activities of Animals, 533.
- Light of very Short Wave-Lengths, The Absorption of the Air for, 528.
- Linear Differential Expressions, Invariants of, 534.
- Linnaean Celebration at Upsala, Sweden, 529.
- Liquids, A New Method for the Determination of the Specific Heats of, 473, 544.
- Luminescence, Kathodo-, of Fluorite, 1.
- Lyman, Theodore, The Absorption of the Air for Light of very Short Wave-Lengths, 528.
- Lyon, D. G., The Most Recent Exploration in Palestine, 529.
- Magnetic Behavior of the Finely Divided Core of an Electromagnet while a Steady Current is being established in the Exciting Coil, 97.
- Magnetic Field and Temperature Gradient, The Variation of the Thermomagnetic Effect in Soft Iron with Strength of the, 532, 544.
- Magnetic Field, Longitudinal, and the Cathode Rays, 397, 530.
- Manganous Chloride, Transition Temperature of, 341.
- Mark, E. L., Report of the Council, 547; Report of the Publication Committee. *See* Zoological Laboratory of the Museum of Comparative Zoology at Harvard College, Contributions from.
- Mark, E. L., and Copeland, Manton, Maturation Stages in the Spermatogenesis of *Vespa maculata* Linn., 69-74.
- Massachusetts Institute of Technology. *See* Research Laboratory of Physical Chemistry.
- Mathews, J. H. *See* Richards, T. W., and Mathews, J. H.
- Maturation Stages in the Spermatogenesis of *Vespa maculata* Linn., 69.
- McDonald, Arthur, Letter from, 527.
- Measurements, Absolute, of Sound, 544.
- Measurements of the Internal Temperature Gradient in Common Materials, 532.
- Meteorological Uses of the Polariscopes, Note on Some, 405, 531.
- Mexico, Diagnoses of New Spermatophytes from, 61.
- Mexico, New and Otherwise Note-

- worthy Spermatophytes, Chiefly from, 21.
- Mexico, New Plants from, 48.
- Mexico, New species of *Senecio* and *Schoenocaulon* from, 17.
- Michael, Arthur, resigns Fellowship, 535.
- Moore, G. F., appointed Delegate, 530, 532.
- Morse, H. W., Studies on Fluorite: (IV.) The Kathodo-Luminescence of Fluorite, 1-16.
- Museo Nacional, Mexico, Letter from, 531.
- Museum of Comparative Zoölogy at Harvard College. See Zoölogical Laboratory.
- Nef, J. U., elected Associate Fellow, 534.
- Newhall, S. H., Pisistratus and his Edition of Homer, 489-510, 544.
- Norris, J. F., elected Resident Fellow, 528.
- Officers, elected, 542; List of, 557.
- Oscillations, The Quick, of a Twisted Fibre, Damping of, by the Resistance of the Air and by the Torsional Forces, 533.
- Overbergh, C. van, Letter from, 527.
- Palestine, The Most Recent Exploration in, 529.
- Parker, G. H., The Influence of Light on the Daily Activities of Animals, 533; The Sensory Reactions of *Amphioxus*, 413-455, 533.
- Peirce, B. O., The Damping of the Quick Oscillations of a Twisted Fibre by the Resistance of the Air and by the Torsional Forces, 533; The Influence of Hysteresis upon the Manner of Establishment of a Steady Current in the Primary Circuit of an Induction Coil, 530; On the Determination of the Magnetic Behavior of the Finely Divided Core of an Electromagnet while a Steady Current is being established in the Exciting Coil, 97-182.
- Physikalische Verein, Frankfort, Letter from, 530.
- Physiological Basis of Illumination, The, 75.
- Pickering, W. H., The Volcanoes of the Azores, 529.
- Pierce, G. W., accepts Fellowship, 527; A Simple Method of Measuring the Intensity of Sound, 375-395, 531.
- Pisistratus and his Edition of Homer, 489, 544.
- Plants, New, from Guatemala and Mexico, 48.
- Polariscope, Note on Some Meteorological Uses of the, 405, 531.
- Positive Rays, 511, 544.
- Pressure, Heavy, Some Effects of, on Arc Spectra, 530.
- Publication, Appropriation for, 534, 542.
- Publication Committee, 543; Report of, 540.
- Publication Fund, 536.
- Rays, Positive, 511, 544.
- Reactions, The Sensory, of *Amphioxus*, 413, 533.
- Recognitions, On Delays before, in Greek Tragedy, 457, 533.
- Records of Meetings, 527.
- Research Laboratory of Physical Chemistry of the Massachusetts Institute of Technology, Contributions from, 257.
- Richards, T. W., and Mathews, J. H., Concerning the Use of Electrical Heating in Fractional Distillation, 519-524.
- Richards, T. W., and Rowe, A. W., A New Method for the Determination of the Specific Heats of Liquids, 473-488, 544.
- Richards, T. W., and Wrede, Franz, The Transition Temperature of Manganous Chloride: A New Fixed Point in Thermometry, 341-350.

- Robinson, B. L., New or Otherwise Noteworthy Spermatophytes, Chiefly from Mexico, 21-48.
- Robinson, B. L., and Bartlett, H. H., New Plants from Guatemala and Mexico collected Chiefly by C. C. Deam, 48-60.
- Rods, Cylindrical Iron, Demagnetizing Factors for, 183.
- Rotch, A. L., Report of Librarian, 537.
- Rowe, A. W. *See* Richards, T. W., and Rowe, A. W.
- Royal Friedrich-Wilhelm University of Berlin. *See* First Chemical Institute of the Royal Friedrich-Wilhelm University of Berlin.
- Rumford Committee, Report of, 538; Reports of Progress to, 538.
- Rumford Fund, 535; Appropriations from the Income of, 534, 542; Papers published by Aid of, 1, 75, 341, 351, 405, 473, 511.
- Rumford Premium, 578; Presentation of, 534.
- Russell, I. C., Death of, 533.
- St. Gaudens, A., Death of, 533.
- St. Murat, I., Letter from, 527.
- Salts Melting below 600° C., The Latent Heat of Fusion and the Specific Heat in the Solid and Liquid State of, 544.
- Sanger, C. R., and Black, O. F., The Quantitative Determination of Arsenic by the Gutzeit Method, 295-324; The Determination of Arsenic in Urine, 325-340.
- Schoenocaulon from Mexico, New Species of, 17.
- Senecio and Schoenocaulon from Mexico, New Species of, 17.
- Sensory Reactions of Amphioxus, The, 413, 533.
- Seymour, T. D., Death of, 530.
- Shuddemagen, C. L. B., The Demagnetizing Factors for Cylindrical Iron Rods, 183-256.
- Solutions, A New Method of Determining the Specific Heats of, 473, 544.
- Sound, Absolute Measurements of, 544.
- Sound, A Simple Method of Measuring the Intensity of, 375, 531.
- Specific Heats of Solutions, A New Method of Determining the, 473, 544.
- Spectra, Arc, Some Effects of Heavy Pressure on, 530.
- Spermatogenesis of *Vespa maculata* Linn., Maturation Stages in the, 69.
- Spermatophytes, Chiefly from Mexico, New and Otherwise Noteworthy, 21.
- Spermatophytes from Mexico, Diagnoses of New, 61.
- Standing Committees, appointed, 543; List of, 557.
- Standing Votes, 567.
- Statutes, 567.
- Steam, Notes on Superheated, 533.
- Stedman, E. C., Death of, 533.
- Temperature, Transition, of Manganous Chloride, 341.
- Temperature Gradient, The Internal, in Common Materials, Measurements of, 532.
- Temperature Gradient, The Variation of the Thermomagnetic Effect in Soft Iron with Strength of the Magnetic Field and, 532, 544.
- Thaxter, Roland, Contributions toward a Monograph of the Laboulbeniaceae. Part II., 534.
- Thermodynamic Chemistry, Outlines of a New System of, 257.
- Thermomagnetic Effect in Soft Iron, The Variation of the, with Strength of the Magnetic Field and Temperature Gradient, 532, 544.
- Thermometry, A New Fixed Point in, 341.
- Thwing, C. B., Measurements of the Internal Temperature Gradient in Common Materials, 532.
- Titanium  $\lambda\lambda$  3900 and 3913 in Arc and Spark, Difference in Wave-Lengths of, 351, 528.



- Torsional Forces, The Damping of the Quick Oscillations of a Twisted Fibre by the Resistance of the Air and by the, 533.
- Transition Temperature of Manganous Chloride; A New Fixed Point in Thermometry, 341.
- Treasurer, Report of, 535.
- Trowbridge, John, Longitudinal Magnetic Field and the Cathode Rays, 397-404, 530; Positive Rays, 511-517, 544.
- Urine, The Determination of Arsenic in, 325.
- Upsala, Sweden, The Linnaean Celebration at, 529.
- Vespa maculata Linn., Maturation Stages in the Spermatogenesis of, 69.
- Vogel, H. C., Death of, 528.
- Volcanoes of the Aleutian Islands, 532.
- Volcanoes of the Azores, 529.
- Walker, W. H., elected Resident Fellow, 528; accepts Fellowship, 528.
- Warren, C. H., elected Resident Fellow, 544.
- Warren (C. M.) Committee, Report of, 539.
- Warren (C. M.) Fund, 536; Appropriation from the Income of, 542.
- Warren, Minton, Death of, 529.
- Wave-Lengths, Difference in, of Titanium  $\lambda\lambda$  3900 and 3913 in Arc and Spark, 351, 528.
- Wave-Lengths, very Short, The Absorption of the Air for Light of, 528.
- Webster, A. G., Absolute Measurements of Sound, 544.
- Wilson, J. H. *See* Baxter, G. P., and Wilson, J. H.
- Wrede, Franz. *See* Richards, T. W., and Wrede, Franz.
- Young, C. A., Death of, 530.
- Zoological Laboratory of the Museum of Comparative Zoölogy at Harvard College, E. L. Mark, Director, Contributions from, 69, 413.